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## **CLAIMS**

1. A peak detector for detecting a peak signal, comprising: an input circuit to input an input signal;

a track and hold circuit to hold said input signal and to output said peak signal; a comparator to compare said input signal and said peak signal to generate a k signal;

said track and hold circuit to output said peak signal in accordance with said clock signal.

2. A peak detector for detecting a peak signal as in Claim 1, wherein said peak detector includes a capacitor to hold said peak signal.